

Schottky Barrier Diode

RB400D

●Applications

Low current rectification

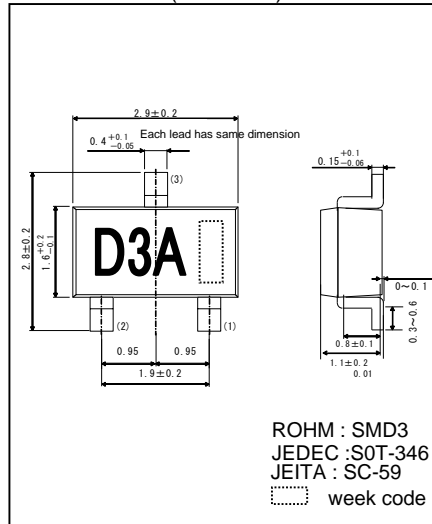
●Features

- 1) Small mold type. (SMD3)
- 2) Low I_r
- 3) High reliability.

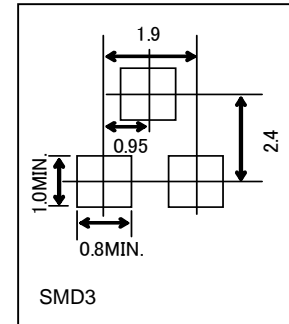
●Construction

Silicon epitaxial planer

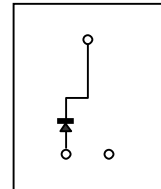
●Dimensions (Unit : mm)



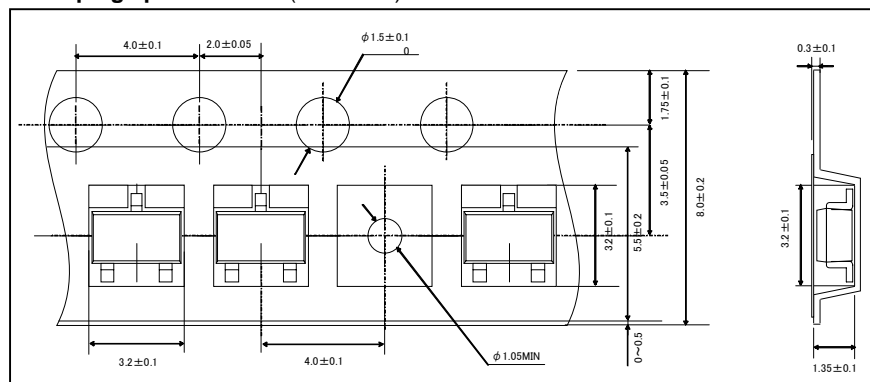
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



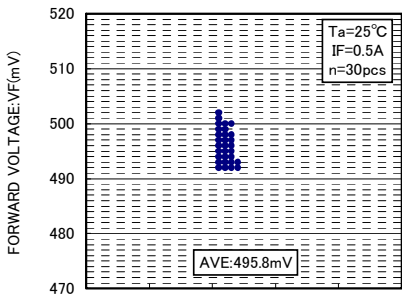
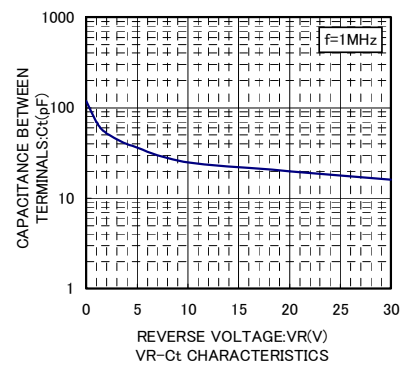
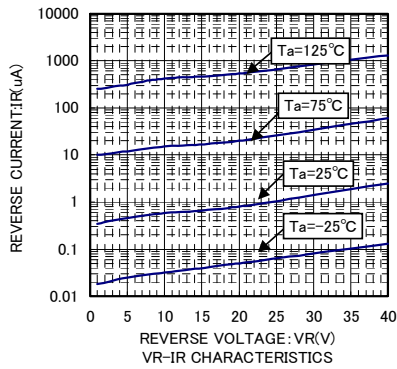
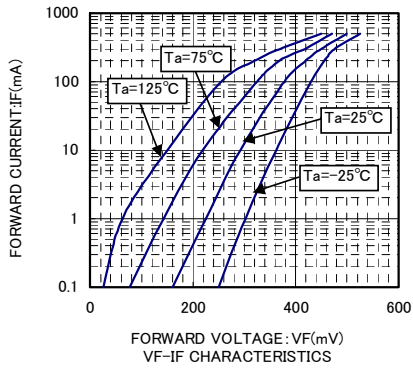
●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V |
| Reverse voltage (DC) | V_R | 40 | V |
| Average rectified forward current(*1) | I_o | 500 | mA |
| Forward current surge peak (60Hz / 1cyc)(*1) | I_{FSM} | 3 | A |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

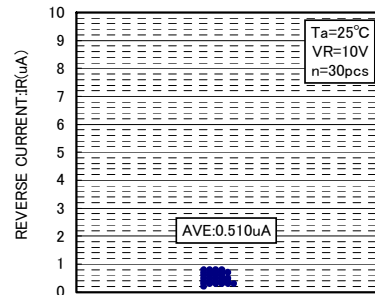
(*1) Rating of per diode

●Electrical characteristics (Ta=25°C)

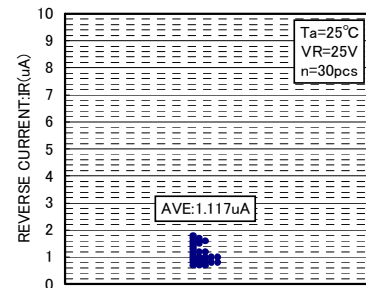
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------|------|------|------|---------|-------------------|
| Forward voltage | V_F | - | - | 0.55 | V | $I_F=500mA$ |
| Reverse current | I_{R1} | - | - | 30 | μA | $V_R=10V$ |
| | I_{R2} | - | - | 50 | μA | $V_R=30V$ |
| Capacitance between terminals | Ct1 | - | 125 | - | pF | $V_R=0V, f=1MHz$ |
| | Ct2 | - | 20 | - | pF | $V_R=10V, f=1MHz$ |



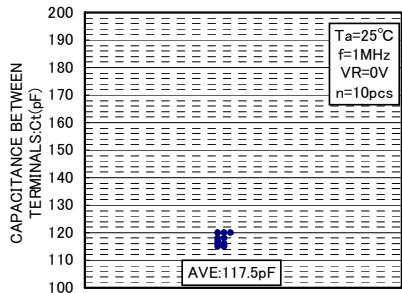
VF DISPERSION MAP



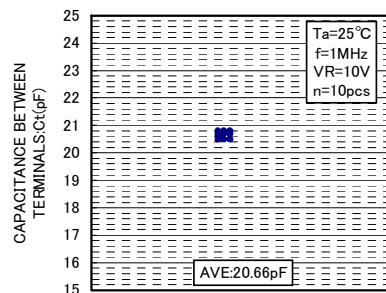
IR DISPERSION MAP



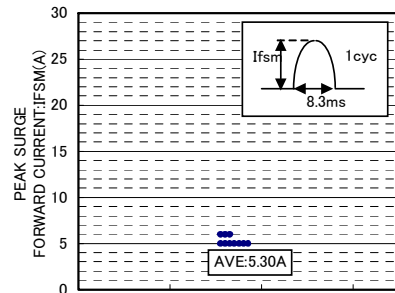
IR DISPERSION MAP



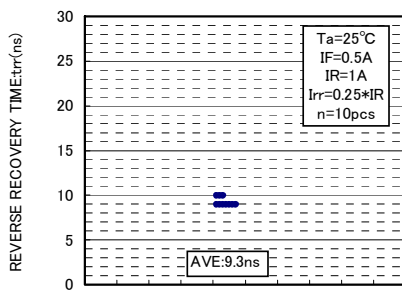
Ct DISPERSION MAP



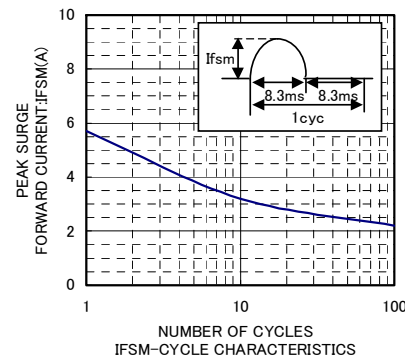
Ct DISPERSION MAP



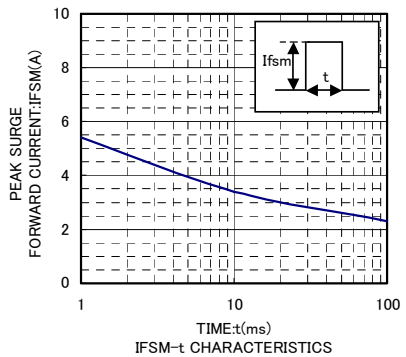
IFSM DISERSION MAP



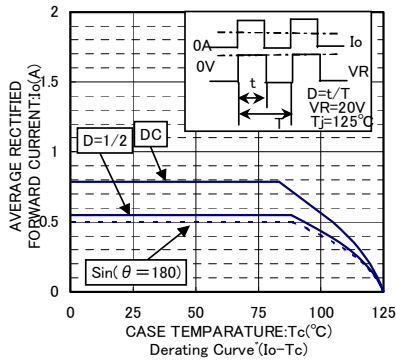
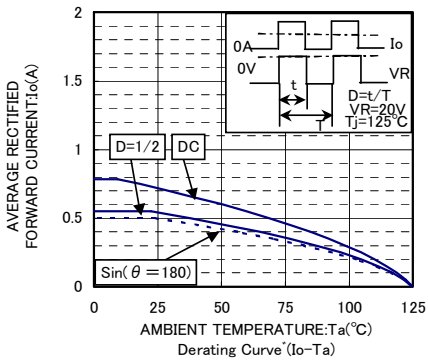
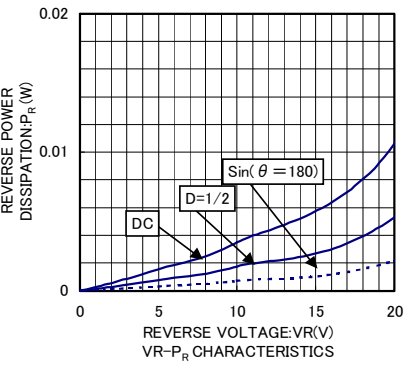
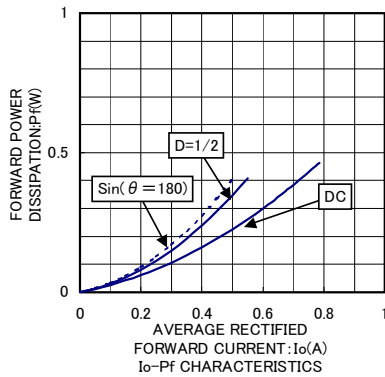
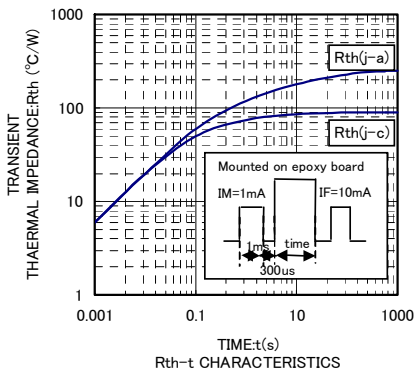
trr DISPERSION MAP



IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Notes

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